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AMPHOLYTE TERPOLYMERS PROVIDING SUPERIOR CONDITIONING PROPERTIES IN SKIN AND NAIL CARE PRODUCTS

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(57) Claim

1. A composition for treating human skin and nails in which a cosmetically acceptable medium is used which contains from 0.1-10% by weight of a water-soluble ampholyte terpolymer having a weight average molecular weight of from about 10 thousand to 10 million, comprising:

(a) from at least 1 to as much as 95 weight percent of a nonionic monomer comprising from 1 to 3 members independently selected from the group consisting of the following monomers and derivatives thereof:

acrylamide (AM)	vinylacetate (VA)
N-alkylacrylamide (NAAM)	vinyl alcohol (VOH)
N-vinylpyrrolidinone (VP)	acrylate esters
methacrylamide (MAM)	allyl alcohol (AAlc)

(b) from at least 5 to as much as 80 weight percent of a cationic monomer comprising 1 or 2 members independently selected from the group consisting of the following monomers and derivatives thereof:

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dimethyldiallylammonium chloride (DMDAAC)
diallylamine (DAA)
methyldiallylamine (MDAA)
N,N-dialkyldiallylammonium chloride
dimethylaminoethylmethacrylate (DMAEM)

methacyloyloxyethyl trimethylammonium chloride (METAC)
methacyloyloxyethyl trimethylammonium metyl sulfate (METAMS)
acryloyloxyethyl trimethylammonium chloride (AETAC)
dimethylaminopropylmethacrylamide (DMAPMA)
methacrylamidopropyl trimethylammonium chloride (MAPTAC)

and

(c) from at least 1 to as much as 75 weight percent of an anionic monomer comprising 1 or 2 members independently selected from the group consisting of the following monomers and derivatives thereof:

acrylic acid (AA)
methacrylic acid (MAA)
2-acrylamido-2-methylpropanesulfonic acid (AMPSA)
crotonic acid (CA)
sodium vinyl sulfonate (SVS)
acrylamidoglycolic acid (AGly)
2-acrylamido-2-methylbutanoic acid (AMBA)
2-acrylamido-2-methylpropanephosphonic acid (AMPPA)
sodium vinyl phosphonate (SVP)
allyl phosphonic acid ((APA).